

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A method for reducing [[the]] noise [[of]] generation in a turbo engines engine with blade cascades, said method comprising:

reducing (S1, R1; S2, R1; S3, R3; S4, R4), ~~characterized in that~~ hydrodynamic pressure fluctuations occurring on the cascades (S1, R2; S2, R1; S3, R3; S4, R4) ~~are reduced~~ by varying [[the]] a surface circulation of at least a section of at least one stator (S1, S2, S3, S4).

Claim 2 (currently amended): [[A]] The method according to claim 1, ~~characterized in that~~ wherein the surface circulation of one or more blades [[(S)]] of the stator (S1, S2, S3, S4) is varied.

Claim 3 (currently amended): [[A]] The method according to claim 2, ~~characterized in that~~ wherein the aerodynamic characteristics of the stator (S1, S2, S3, S4) are varied through the deflection of at least one ~~or more~~ blades (S) blade or sections thereof.

Claim 4 (currently amended): [[A]] The method according to claim 2 [[or 3]], ~~characterized in that~~ the wherein aerodynamic characteristics of the

stator (S1, S2, S3, S4) are varied by air flowing into ~~one or more blades (S) or~~
flowing out of at least one or more blades (S) blade.

Claim 5 (currently amended): [[A]] The method according to ~~any one of~~
~~the claims 2—4 claim 2, characterized in that~~ wherein several blades ~~[[S]]~~ of
a stator (S1, S2, S3, S4) are controlled individually or corresponding with a delay
to ~~[[the]]~~ separation and rotational speed of the stator (S1, S2, S3, S4) ~~with a~~
delay.

Claim 6 (currently amended): [[A]] The method according to claim 5,
~~characterized in that the~~ wherein at least one of phase position ~~and/or the and~~
amplitude of ~~[[the]]~~ control is regulated ~~by means of~~ in response to error signals.

Claim 7 (currently amended): [[A]] The method according to claim 1,
~~any one of the above claims, characterized in that the~~ wherein surface
circulation of the stator (S1, S2, S3, S4) is varied periodically.

Claim 8 (currently amended): [[A]] The method according to claim 7,
~~characterized in that the~~ wherein a control frequency of ~~[[the]]~~ periodic
~~method~~ variation corresponds to ~~[[the]]~~ a base frequency of ~~[[the]]~~ tonal noise
resulting from the product of the rotor blade number and the rotational speed.

Claim 9 (currently amended): [[A]] The method according to ~~any one of~~
~~the claims 1—4, characterized in that~~ claim 4, wherein air is blown out
continuously on ~~[[the]]~~ a trailing edge of at least one or more blades (S) of blade

of the stator (S1, S2, S3, S4) so as to harmonize the in a manner which
harmonizes circulation of downstream cascades.

Claim 10 (currently amended): A rotor-stator arrangement,
~~characterized in that~~ means (11, 12, 13, 14, 15, 16, 17) comprising:

a rotor;

a stator; and

means provided on at least one stator, for influencing [[the]] surface
circulation of at least one section of the stator (S1, S2, S3, S4) ~~are provided on~~
~~one or more stators (S1, S2, S3, S4).~~

Claim 11 (currently amended): [[A]] The rotor-stator arrangement
according to claim 10, ~~characterized in that the~~ wherein said means (11, 12,
13, 14, 15, 16, 17) ~~are one or more~~ comprises at least one leading edge flaps (12)
flap disposed on at least one ~~or more~~ blades blade of the stator (S1, S2, S3, S4).

Claim 12 (currently amended): [[A]] The rotor-stator arrangement
according to claim 10, ~~characterized in that the~~ wherein said means (11, 12,
13, 14, 15, 16, 17) ~~are~~ comprises at least one ~~or more~~ trailing edge flaps (13) flap
disposed on at least one ~~or more~~ blades blade of the stator (S1, S2, S3, S4).

Claim 13 (currently amended): [[A]] The rotor-stator arrangement
according to any one of the claims 10—12, ~~characterized in that~~ one or more

~~blades~~ claim 10, wherein at least one blade of the stator ~~(S1, S2, S3, S4) are is~~
movable about a predefined axis.

Claim 14 (currently amended): [[A]] The rotor-stator arrangement
according to ~~any one of the claims 10—13, characterized in that~~ on one or
~~more blades~~ claim 10, wherein at least one blade of the stator ~~(S1, S2, S3, S4)~~
has at least one ~~or more~~ movable surface elements ~~(14) are provided~~ element.

Claim 15 (currently amended): [[A]] The rotor-stator arrangement
according to ~~any one of the claims 10—14, characterized in that~~ on the claim
10, wherein at least one opening is provided on a surface of at least one ~~or more~~
~~blades~~ blade of the stator, ~~(S1, S2, S3, S4) one or more openings (15, 16) are~~
provided for taking in and/or ~~or~~ blowing out air.

Claim 16 (currently amended): [[A]] The A rotor-stator arrangement
according to ~~any of the claims 10—15, characterized in that~~ on the claim 10,
wherein at least one opening is provided on a trailing edge of at least one ~~or more~~
~~blades (S)~~ blade of the stator, ~~(S1, S2, S3, S4) one or more openings (17) are~~
provided for continuously blowing out air.

Claim 17 (currently amended): [[A]] The rotor-stator arrangement
according to ~~any one of the claims 10—14, characterized in that~~ mechanically,
electrically, piezo-electrically, hydraulically or pneumatically operated claim 10,
wherein:

actuators are provided for ~~the purpose of~~ influencing ~~[[the]]~~ movement of ~~[[the]]~~ said means (11, 12, 13, 14); and

said actuators are operated by a technique which is one of mechanical, electrical, piezo-electrical, hydraulic and pneumatic..

Claim 18 (currently amended): ~~[[A]]~~ The rotor-stator arrangement according to ~~any one of the claims 10—17, where if necessary a method according to any one of the claims 1—8 is employed~~ claim 10, wherein hydrodynamic pressure fluctuations occurring on the cascades are reduced by varying the surface circulation of at least a section of at least one stator.

Claim 19 (original): An engine comprising a rotor-stator arrangement according to claim 18.

Claim 20 (original): An airplane comprising an engine according to claim 19.